

**Notice of Allowability**

Application No.

10/068,278

Examiner

Cheukfan Lee

Applicant(s)

CHANG ET AL.

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an amendment filed October 4, 2006.
2. ☒ The allowed claim(s) is/are 1-13, 15 and 16, now renumbered 1,4-7,9-11,2,3,8, and 12-15, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other : Corrected Figs. 1 & 2.

  
Cheukfan Lee

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Steven J. Munson on December 22, 2006. Mr. Munson agreed to add the claim 14 limitations to claim 13, amend claim 13 in the manner below, cancel claim 14, and label Figs. 1 and 2 with a term "PRIOR ART", in order to place the application in condition for allowance.

2. **Please amend the drawings and claims as follows:**

**In the drawings:**

Label Figs. 1 and 2 with – CONVENTIONAL ART – as shown in the attached copy of Figs. 1 and 2.

**In the claims:**

In claim 13, line 3, after "a first address space," insert – wherein said first group comprises even-numbered pixels and wherein said second group comprises odd-numbered pixels, --;

line 3, after "before and", insert – an address --; and

line 4, after "a pixel", insert – of said first group or said second group --.

Cancel claim 14.

In claim 15, line 1, change "14" to – 13 --.

3. The following is an examiner's statement of reasons for allowance:

Claims 1, 5, 6, 11-13 have been amended to overcome the objection of claims 1 and 5-16 set forth in the previous Office action.

Claims 1-13, 15 and 16 are allowed. Claims 1, 2, 6, and 13 are independent.

The reasons for allowance for claims 1, 2 and 6 given in the previous Office action is repeated below.

Claim 1 is allowable over the prior art of record because the closest prior art Takahashi et al. (U.S. Patent No. 5,929,899) does not disclose dividing the data into a first group containing odd-numbered pixel data and a second group containing even-numbered pixel data, in combination with other limitations of claim 1.

Claims 9 and 10 depend on claim 1, directly or indirectly.

Claim 2 recites "dividing data obtained by scanning a line of pixels into groups" and "arrange a plurality of primary or secondary color data constituting a pixel into a fixed sequence in said memory unit", among other limitations. This combination of features is not taught by Takahashi et al. (U.S. Patent No. 5,929,899).

Claims 3-5 and 11 depend on claim 2, directly or indirectly.

Claim 6 is allowable over the closest prior art of record Takahashi et al. (5,929,899) because Takahashi et al. does not disclose dividing the pixels from a scan line corresponding to a primary or secondary color into groups. The G, B, or R pixels of Takahashi et al. are not divided into groups as claimed.

Claims 7, 8 and 12 depend on claim 6.

Claim 13 as amended above requires that the pixel data stored belong to a first group or a second group, wherein said first group comprises even-numbered pixels and wherein said second group comprises odd-numbered pixels, and that an address space before and an address after the first address space are reserved so that a plurality of pixel data corresponding to a pixel of said first group or said second group are subsequently arranged in a sequence inside said memory unit. These features in combination with other limitations of claim 13 are not taught by the closest prior art Takahashi et al. (5,929,899).

Claims 15 and 16 depend on claim 13, directly or indirectly.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. Applicant is reminded of the improper foreign priority claim filed with the Combined Declaration and Power of Attorney on February 6, 2002. The priority claim form on page 1 has an "X" placed under "No". No foreign priority/application data has been picked up by the Initial Application Examination Branch at the PTO and recorded on the Bibliographic Data Sheet.

Please refer to M.P.E.P. 201.11, page 200-66, section f, and also Rule 1.78(a) for filing a petition and fee for properly claiming foreign priority (or delayed claiming of foreign priority).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheukfan Lee whose telephone number is (571) 272-7407. The examiner can normally be reached on 9:30 a.m. to 6:00 p.m., Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Cheukfan Lee  
December 22, 2006

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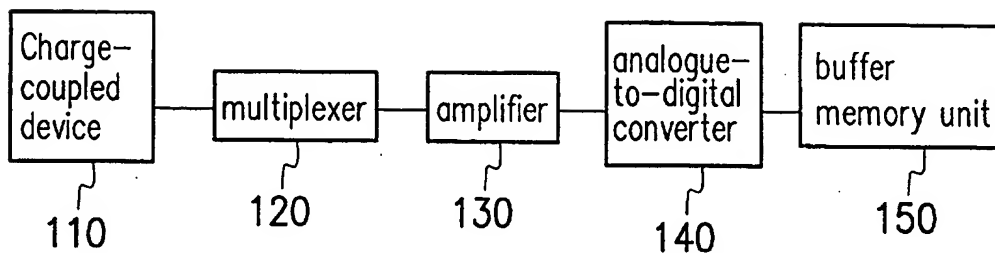


FIG. 1 CONVENTIONAL ART

$R_{11}$	$R_{12}$	$R_{13}$	.....	$R_{1n}$
$R_{21}$	$R_{22}$	$R_{23}$	.....	$R_{2n}$
$\vdots$				$\vdots$
$R_{k1}$	$R_{k2}$	$R_{k3}$	.....	$R_{kn}$
$G_{11}$	$G_{12}$	$G_{13}$	.....	$G_{1n}$
$G_{21}$	$G_{22}$	$G_{23}$	.....	$G_{2n}$
$\vdots$				$\vdots$
$G_{k1}$	$G_{k2}$	$G_{k3}$	.....	$G_{kn}$
$B_{11}$	$B_{12}$	$B_{13}$	.....	$B_{1n}$
$B_{21}$	$B_{22}$	$B_{23}$	.....	$B_{2n}$
$\vdots$				$\vdots$
$B_{k1}$	$B_{k2}$	$B_{k3}$	.....	$B_{kn}$

FIG. 2 CONVENTIONAL ART